

I claim:

2 1. Electric vehicle construction which includes a body for carrying at least one passenger and an electric propulsion system with at least one electric motor and at least one battery attached to said body, and which body is riding on two wheels with a steering system attached to said body, and said body includes a body frame, a seat, a front foot rest platform, front and rear wheel, sides, front, rear, top and bottom, the improvement wherein

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said passenger is seated in a reclining position with his feet resting on said front platform, above and in front of said front wheel, and said motor is mounted behind said seat and in front of said rear wheel.

2 2. Electric vehicle construction as described in claim 1, in which said batteries are mounted under said seat.

3 3. Electric vehicle construction as described in claim 1, in which at least one said battery is mounted on at least one side of said rear wheel.

2 4. Electric vehicle construction as described in claim 1, which is additionally provided with at least one electric current generator for charging said batteries and which is driven by an internal combustion engine and which generator with said engine is attached to said body frame behind said

seat and above said rear wheel.

5. Electric vehicle construction is described in claim 1, which is additionally provided with at least one electric current generator for charging said batteries and which is driven by an internal combustion engine and which generator with said engine is attached to said body frame on one side of said rear wheel.

6. Electric vehicle construction as described in claims 2 or 3, wherein at least one of said batteries is replaced with at least one electricity generating fuel cell system.

7. Electric vehicle construction as described in claims 2 or 3, wherein at least one of said batteries is replaced with at least one capacitor.

8. Electric vehicle construction as described in claims 4 or 5, in which said electric current generator is replaced with at least one electricity generator fuel cell system.

9. Electric vehicle construction as described in claims 4 or 5, in which said electric current generator is a multiple generator.

(10. Electric vehicle construction which includes a body for

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carrying at least one passenger and an electric propulsion
 system with at least one electric motor, at least one battery,
 at least one electric current generator for charging said
 battery and which is driven by an internal combustion engine,
 and a hydrogen storage system ^{having hydrogen therein,} attached to said body, and which
 body ^{rides} ~~is riding~~ on two wheels with a steering system attached to
 said body. ^{the} ~~The~~ improvement wherein said engine is an open to
 air combustion engine and is fueled only by said hydrogen.

11. Electric vehicle construction which includes a body for
 carrying at least one passenger and an electric propulsion
 system with at least one motor, at least one battery, at least
 one electric current generator for charging said battery and
 which is driven by an internal combustion engine, and a
 hydrogen generating cell attached to said body, and which body
^{rides} ~~is riding~~ on two wheels with a steering system attached to said
 body, the improvement wherein said engine is an open to air
 combustion engine and is fueled only by ~~said~~ hydrogen which is
 produced by electrolysis of water in said hydrogen generating
 cell, said cell is electrically connected to said generator and
 also to said battery, ^{the} ~~said~~ hydrogen is not stored under
 pressure and is immediately consumed by said engine.

12. Electric vehicle construction which includes a body for
 carrying at least one passenger and electric propulsion system
 with at least one motor, at least one battery, at least one

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electric current generator for charging said battery and which is driven by an internal combustion engine, a hydrogen storage ^{having hydrogen therein} system and a hydrogen generating cell ^{which generates hydrogen} by electrolysis of water, the improvement wherein said engine is an open to air combustion engine and is fueled only by ~~said~~ ^{the} hydrogen, ~~said~~ ^{being} hydrogen ^{is} supplied from said storage system and from said hydrogen generating cell, said cell is electrically connected to said generator, and said cell is also electrically connected to said battery.

13. Electric vehicle construction as described in claim 1, in which said batteries are lithium rechargeable batteries.

14. Electric vehicle construction as described in claim 1, in which said batteries are hydrogen based rechargeable batteries.

15. Electric vehicle construction as described in claim 26 or 27, in which said body frame is protected by synergistic fluoropolymer coating.

16. Electric vehicle construction as described in claim 1, wherein said vehicle motor includes a disc armature.

17. Electric vehicle construction as described in claim 1, wherein said steering system includes semi-wheel steering handlebars which may rotate around approximately horizontal

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axis and are connected to said front wheel through a plurality of torsional elements, at least one universal joint, levers, push-pull rods, pins and an approximately vertical front wheel fork, and said torsional elements are supported by bearings embedded in a support structure, and said structure is attached to said body frame, and said fork is supported by bearings embedded in said body frame, and said steering system is controlled by said passenger.

2 18. Electric vehicle construction as described in claim 1, wherein said steering system includes an approximately vertical fork of said front wheel and "T"-shaped handlebars with approximately vertical torsional element connected to said front fork, and said fork is supported by bearings embedded in said body frame, and said steering system is controlled by said passenger.

N 19. Electric vehicle construction as described in claim 1, wherein said front platform is horizontally adjustable.

N 20. Electric vehicle construction as described in claim 1, in which said front and rear wheels include hubs, spikes and rims of magnesium alloy.

N 21. Electric vehicle construction as described in claim 1, in which said electric motor is driving said rear wheel through a

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timing belt and pulleys.

22. Electric vehicle construction as described in claim 1, in which said wheels include pressure-airless tires having flexible honeycomb core.

23. Electric vehicle construction as described in claim 1, in which said seat includes a frame formed substantially of magnesium extrusions.

24. Electric vehicle construction which includes a body for carrying at least one passenger and an electric propulsion system with at least one motor, at least two batteries, at least two generators for charging said batteries attached to said body, and which is riding on at least two wheels with a steering system attached to said body, the improvement wherein said batteries are protected from overcharge and overdischarge by charging said batteries individually by said generators in parallel and individually disconnecting said batteries when charged to preset limits, and discharging said batteries together in series and individually disconnecting said batteries when discharged to preset limits.

25. Electric vehicle construction which includes a body for carrying at least one passenger and an electric propulsion system with at least one motor, at least two battery cells, at

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least two electric current generating fuel cells for charging said battery cells attached to said body, and which is riding on at least two wheels with a steering system attached to said body, the improvement wherein said battery cells are protected from overcharge and overdischarge by charging said battery cells individually by said fuel cells in parallel and individually disconnecting said battery cells when charged to preset limits, and discharging said battery cells together in series and individually disconnecting said battery cells and by-passing them when discharged to preset limits.

26. Electric vehicle construction which includes a body for carrying at least one passenger and an electric propulsion system attached to said body and which body is riding on two wheels with a steering system attached to said body, and said body includes a body frame, the improvement wherein said body frame is formed substantially of magnesium alloy extrusions joined together with aid of fittings and an adhesive.

27. Electric vehicle construction which includes a body for carrying at least passenger and an electric propulsion system attached to said body and which body is riding on two wheels with a steering system attached to said body and said body includes a body frame, the improvement wherein said body frame is formed substantially of magnesium alloy extrusions joined together by welds.

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28. Electric vehicle construction as described in claim 1, which includes retractable side legs with wheels and which side legs are attached to said body.

29. Electric vehicle construction as described in claim 1, 4 and 5, which additionally includes a front aerodynamic shield which is attached to and is partially enclosing said front platform, and a rear aerodynamic cover enclosure which is enclosing and is attached to said generator and said engine.

30. Electric vehicle construction as described in claim 29, in which said front shield and rear cover enclosure are of composite sandwich construction with ultrahigh molecular polyethylene fibers in a resin and a paper honeycomb core.

31. Electric vehicle construction as described in claim 29, in which said front shield and rear cover enclosure are of molded and welded polyethylene sheets of double wall construction with a hollow space there between.

32. Electric vehicle construction as described in claim 29, in which said front shield structurally includes streamlined and protruding rear view mirrors on both said sides of the vehicle.

33. Electric vehicle construction as described in claim 1, wherein said front platform is replaced by an additional pedal

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drive, said pedal drive is horizontally adjustable and is driving said rear wheel.

~~34. Electric vehicle construction as described in claims 4 or 5 or 10 or 11 or 12, in which said generator includes a clutch, and said clutch enables said engine to start without the generator load.~~

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